

**MATERIAL SAFETY DATA SHEET**  
**GENERAL HYDROPONICS KOOLBLOOM™**  
**3/7/09**

**SECTION 1. MATERIAL IDENTIFICATION**

**Product Name:** KoolBloom™ Ripening Formula

**Chemical Family:** A dry mixture of plant nutrition minerals

**Product Use:** Hydroponic plant nutrient

**Manufactured by:** General Hydroponics, 3789 Vine Hill Rd. Sebastopol CA 95472.  
(707) 824-9376 Fax: (707) 824-9377

**For Emergency Day or Night Call:** CHEMTREC – Domestic North America 800-424-9300,  
International 703-527-3887 (collect calls accepted)

**SECTION 2. INGREDIENTS AND OCCUPATIONAL EXPOSURE LIMITS**

**Ingredients:** KoolBloom™ Ripening Formula is a concentrated nutrient additive that promotes abundant flowering. The chemical identity of the compounds and exact proportions used in the mixture are a trade secret. KoolBloom™ Ripening Formula is derived from ammonium phosphate, ammonium sulfate, potassium phosphate, potassium sulfate, and magnesium sulfate.

**Exposure Limits:** Some of the chemicals used in KoolBloom™ Ripening Formula, when inhaled in a powder form, are known to be irritants to the upper respiratory tract. OSHA has established a PEL for an eight-hour time weighted average of 5 mg/m<sup>3</sup> (respirable fraction) or 15 mg/m<sup>3</sup> eight-hour time weighted average (total dust). ACGIH has established a 10 mg/m<sup>3</sup> eight-hour time weighted average threshold limit value for exposure to chemicals in this category. When these chemicals are in aqueous solution and are not aerosolized, they are not an inhalation hazard.

**SECTION 3. HAZARDS IDENTIFICATION**

**\*\*\* Emergency Overview \*\*\***

**As part of good industrial and personal hygiene and safety procedure,  
avoid all unnecessary exposure to the chemical substance and ensure  
prompt removal from skin, eyes and clothing**

**Potential Health Effects**

**Primary Entry Routes:** Ingestion, inhalation, and skin contact

**Target Organs:** Respiratory system and gastrointestinal tract.

**Ingestion:** Can cause irritation to the gastrointestinal tract, may cause nausea, vomiting, and diarrhea.

**Eye:** Can cause irritation, redness, and pain.

**Skin:** Can cause irritation or rash, particularly with moist skin. Symptoms can include redness, itching, and pain.

**Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

**Carcinogenicity:** IARC, NTP, and OSHA do not list as a carcinogen.

**Medical Conditions Aggravated by Long- Term Exposure:** Unknown.

**Chronic Effects:** Repeated or prolonged exposure to some ingredients can cause irritation of the respiratory tract.

**Other:** None

## **Section 4. FIRST AID MEASURES**

**Ingestion:** If swallowed give several glasses of water to drink to dilute product. Never give anything by mouth to an unconscious person. Induce vomiting as directed by medical personnel. Call a physician.

**Eye Contact:** Do not allow victim to rub or keep eyes tightly shut. Remove contact lenses, then gently lift eyelids and flush immediately and continuously with flooding amounts of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

**Skin Contact:** Flush exposed area with soap and water for at least 15 minutes. If irritation persists, consult a physician. Remove contaminated clothing, and wash clothing before reuse.

**Inhalation:** Remove exposed person to fresh air and support breathing, if necessary. If breathing becomes difficult, administer oxygen. Consult a physician as soon as possible.

**After First Aid:** Get appropriate community medical support.

## **SECTION 5. FIRE AND EXPLOSION DATA**

**Fire:** Not believed to be a fire hazard.

**Flammability Classification:** KoolBloom™ Ripening Formula is not combustible.

**Burning Rate:** Unknown

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Spill /Leak Procedures:** Small amounts can be diluted, and flushed into a sewer. Larger amounts should be dampened with water, swept up carefully to avoid dispersal in air, and held for reclamation or disposal.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## **SECTION 7. HANDLING AND STORAGE**

**Handling Precautions:** Avoid ingestion, skin contact, eye contact, and inhalation

**Storage Requirements:** Keep in tightly closed containers in a cool, dry, ventilated area.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible.

**Administrative Controls:** Avoid breathing dust.

**Respiratory Protection:** If this product is used as directed, respiratory protection is not required. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Eye Protection:** When handling KoolBloom™ Ripening Formula, protective eyewear or goggles should be worn per OSHA regulations (29 CFR 1910.134). Contact lenses pose a special hazard. Soft lenses may absorb irritants, and all contact lenses concentrate irritants. Particles may adhere to contact lenses and cause corneal damage.

**Protective Clothing:** Wear impervious protective clothing when the possibility of skin or clothing contamination may exist. Wear neoprene or nitrile gloves when directly handling the product.

**Safety Stations:** Eye wash stations, quick drench showers, and washing facilities should be readily accessible to workers handling large quantities of KoolBloom™ Ripening Formula.

**Contaminated Equipment:** Remove this material from shoes and equipment. Launder contaminated clothing before wearing.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this product, especially before eating drinking, smoking, using the toilet, or applying cosmetics.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Powder

**pH:** 5.0 @1g/L of distilled water

**Appearance and Odor:** Pink powder with no odor

**Water Solubility:** Soluble

**Boiling Point:** Unknown

**Vapor Pressure:** Unknown

**Other Solubility:** Unknown

**Freezing Point:** Unknown

## SECTION 10. STABILITY AND REACTIVITY

**Stability:** Stable at room temperature in closed containers, under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization does not occur.

**Chemical Incompatibilities:** Sodium hypochlorite, ethoxy ethyl acetates, tartrates, lead, barium, stontium, calcium, bromine trifluoride, alkalis, oxidizing and reducing agents.

**Conditions to Avoid:** Mixture with incompatibles, high temperatures

**Hazardous Decomposition Products:** At extreme temperatures, irritating and highly toxic gases may be released.

## SECTION 11. TOXICOLOGICAL INFORMATION

Some chemicals in KoolBloom™ Ripening Formula are toxic by ingestion, inhalation, or dermal contact. None of the ingredients are known to be carcinogens.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Unknown

**Environmental Fate:** Not expected to be significant

**Environmental Degradation:** Unknown

## SECTION 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Follow Federal, State, and local regulations.

## SECTION 14. TRANSPORTATION INFORMATION

**DOT Transportation Data (49 CFR 172.101):** Not regulated

## **SECTION 15. REGULATORY INFORMATION**

**EPA Regulations:** Not listed

## **SECTION 16. OTHER INFORMATION**

KoolBloom™ Ripening Formula is a plant nutrition product. Information assembled for this Material Safety Data Sheet is for the use of this product as intended by the manufacturer. Users should take all precautions recommended herein while working with this product.

General Hydroponics provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in using this product.